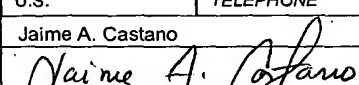


Please type a plus sign (+) in this box → ☐

Approved for use through 9/30/2000. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53 (b))		Attorney Docket No.: 101.0021 US CON	
		First Named Inventor or Application Identifier: SMITH, DR	
		Title: Method and Apparatus to Monitor, Control and Log Subsea Oil and Gas Wells	
		Express Mail Label No.: EY 337 085 532 US	
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.		ADDRESS TO: Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231	
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and duplicate for fee processing) 2. <input checked="" type="checkbox"/> Specification [Total Pages:] 27 - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed-sponsored R & D - Reference to Microfiche Appendix - Background of the invention - Brief Summary of the invention - Brief Descriptions of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 3. <input checked="" type="checkbox"/> Drawings (35 U.S.C. 113) [Total Sheets:] 3 4. Oath or Declaration [Total Pages:] 1 a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 16 completed) i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).		5. <input type="checkbox"/> Microfiche Computer Program (Appendix) 6. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy c. <input type="checkbox"/> Statement verifying identity of above copies	
ACCOMPANYING APPLICATION PARTS			
7. <input type="checkbox"/> Assignment papers (cover sheet & document(s)) 8. <input checked="" type="checkbox"/> 37 C.F.R. 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney (when there is an assignee) 9. <input type="checkbox"/> English Translation Document (if applicable) 10. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/Form 1449 Citations 11. <input type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 13. <input type="checkbox"/> *Small Entity <input type="checkbox"/> Statement filed in prior application, Statement(s) Status is still proper and desired (PTO/SB/09-12) 14. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 15. <input type="checkbox"/> Other: _____			
16. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment: <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.: 10/064,407 Prior application information: Examiner: BEACH, TA Group/Art Unit: 3671 For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.			
17. CORRESPONDENCE ADDRESS			
<input type="checkbox"/> Customer Number or Bar Code Label		<input type="checkbox"/> Correspondence address below	
NAME Schlumberger Technology Corporation, Schlumberger Reservoir Completions			
ADDRESS 14910 Airline Road P.O. Box 1590			
CITY	Rosharon	STATE	Texas
COUNTRY	U.S.	TELEPHONE	(281) 285-5720
		FAX	(281) 285-5537
Name (Print/Type)	Jaime A. Castano		Registration No. (Attorney/Agent): 41,660
Signature			Date: 1 Aug 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

 22241 U.S. PTO
10/633045


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Smith, D.A.

Attorney Docket No.: 101.0021CON

Serial No.:

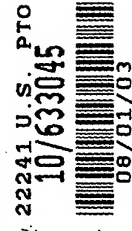
Art Unit:

Filed Herewith: August 1, 2003

Examiner:

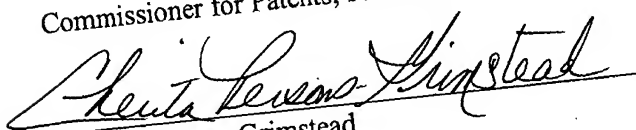
For: Method and Apparatus to Monitor, Control
and Log Subsea Oil and Gas Wells

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450



CERTIFICATE OF MAILING

I hereby certify that this Fee Calculation Sheet (in duplicate) is being deposited with the United States Postal Service as Express Mail No. EV 337 085 532 US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Cherita Persons-Grimstead

Aug 1, 2003
Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Smith, D.A.

Attorney Docket No.: 101.0021CON

Serial No.:

Art Unit:

Filed Herewith: August 1, 2003

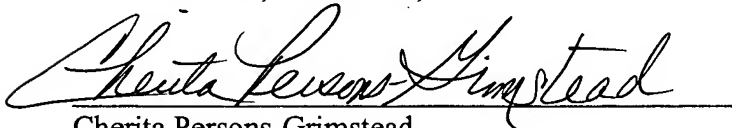
Examiner:

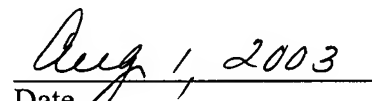
For: Method and Apparatus to Monitor, Control
and Log Subsea Oil and Gas Wells

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that these drawings are being deposited with the United States Postal Service
as Express Mail No. EV 337 085 532 US in an envelope addressed to: Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450.


Cherita Persons-Grimstead


Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104

FEE TRANSMITTAL				For FY 2003																																																																																																																																																																					
Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.				Complete if Known																																																																																																																																																																					
TOTAL AMOUNT OF PAYMENT		\$1038.00		Application Number																																																																																																																																																																					
METHOD OF PAYMENT (Check one)				Filing Date																																																																																																																																																																					
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: 50-2475 Deposit Account Name: SENSOR HIGHWAY LIMITED <input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17				First Named Inventor		SMITH																																																																																																																																																																			
				Group Art Unit																																																																																																																																																																					
				Examiner Name																																																																																																																																																																					
				Attorney Docket Number		101.0021US CON																																																																																																																																																																			
3. ADDITIONAL FEES				FEE CALCULATION (continued)																																																																																																																																																																					
1. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1840*</td><td>113</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for response within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for response within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for response within third month</td><td></td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for response within fourth month</td><td></td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for response within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive unavoidably abandoned application</td><td></td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive unintentionally abandoned application</td><td></td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee</td><td></td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petition to Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>760</td><td>246</td><td>380</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>760</td><td>249</td><td>380</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> </tbody> </table>				Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1840*	113	1840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for response within first month		116	380	216	190	Extension for response within second month		117	870	217	435	Extension for response within third month		118	1,360	218	680	Extension for response within fourth month		128	1,850	228	925	Extension for response within fifth month		119	300	219	150	Notice of Appeal		120	300	220	150	Filing a brief in support of an appeal		121	260	221	130	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive unavoidably abandoned application		141	1,210	241	605	Petition to revive unintentionally abandoned application		142	1,210	242	605	Utility issue fee		143	430	243	215	Design issue fee		144	580	244	290	Plant issue fee		122	130	122	130	Petition to Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment property (times number of properties)		146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))		149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))	
Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																				
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																					
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																					
139	130	139	130	Non-English specification																																																																																																																																																																					
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																					
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																					
113	1840*	113	1840*	Requesting publication of SIR after Examiner action																																																																																																																																																																					
115	110	215	55	Extension for response within first month																																																																																																																																																																					
116	380	216	190	Extension for response within second month																																																																																																																																																																					
117	870	217	435	Extension for response within third month																																																																																																																																																																					
118	1,360	218	680	Extension for response within fourth month																																																																																																																																																																					
128	1,850	228	925	Extension for response within fifth month																																																																																																																																																																					
119	300	219	150	Notice of Appeal																																																																																																																																																																					
120	300	220	150	Filing a brief in support of an appeal																																																																																																																																																																					
121	260	221	130	Request for oral hearing																																																																																																																																																																					
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																					
140	110	240	55	Petition to revive unavoidably abandoned application																																																																																																																																																																					
141	1,210	241	605	Petition to revive unintentionally abandoned application																																																																																																																																																																					
142	1,210	242	605	Utility issue fee																																																																																																																																																																					
143	430	243	215	Design issue fee																																																																																																																																																																					
144	580	244	290	Plant issue fee																																																																																																																																																																					
122	130	122	130	Petition to Commissioner																																																																																																																																																																					
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																					
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																					
581	40	581	40	Recording each patent assignment property (times number of properties)																																																																																																																																																																					
146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																					
149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																					
1. BASIC FILING FEE <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>740</td><td>201</td><td>345</td><td>Utility filing fee</td><td>\$750</td></tr> <tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant Filing fee</td><td></td></tr> <tr><td>108</td><td>760</td><td>208</td><td>380</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table>				Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	101	740	201	345	Utility filing fee	\$750	106	310	206	155	Design filing fee		107	480	207	240	Plant Filing fee		108	760	208	380	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) \$750																																																																																																																																	
Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																				
101	740	201	345	Utility filing fee	\$750																																																																																																																																																																				
106	310	206	155	Design filing fee																																																																																																																																																																					
107	480	207	240	Plant Filing fee																																																																																																																																																																					
108	760	208	380	Reissue filing fee																																																																																																																																																																					
114	150	214	75	Provisional filing fee																																																																																																																																																																					
2. CLAIMS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Total Claims</th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>36</td> <td>-20 =</td> <td>16</td> <td>\$ 18.00</td> <td>\$288</td> </tr> <tr> <td>2</td> <td>-3 =</td> <td></td> <td>\$84.00</td> <td>\$0</td> </tr> </tbody> </table>				Total Claims		Extra	Fee from below	Fee Paid	36	-20 =	16	\$ 18.00	\$288	2	-3 =		\$84.00	\$0	SUBTOTAL (2) \$288																																																																																																																																																						
Total Claims		Extra	Fee from below	Fee Paid																																																																																																																																																																					
36	-20 =	16	\$ 18.00	\$288																																																																																																																																																																					
2	-3 =		\$84.00	\$0																																																																																																																																																																					
2. CLAIMS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claims</td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>**Reissue independent claims over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>**Reissue claim in excess of 20 and over original patent</td></tr> </tbody> </table>				Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	103	18	203	9	Claims in excess of 20	102	78	202	39	Independent claims in excess of 3	104	260	204	130	Multiple dependent claims	109	78	209	39	**Reissue independent claims over original patent	110	18	210	9	**Reissue claim in excess of 20 and over original patent	SUBTOTAL (3) \$0																																																																																																																																							
Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description																																																																																																																																																																					
103	18	203	9	Claims in excess of 20																																																																																																																																																																					
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																					
104	260	204	130	Multiple dependent claims																																																																																																																																																																					
109	78	209	39	**Reissue independent claims over original patent																																																																																																																																																																					
110	18	210	9	**Reissue claim in excess of 20 and over original patent																																																																																																																																																																					
SUBMITTED BY Typed or Printed Name: JAIME A. CASTANO Signature: Jaime A. Castano				Complete (if applicable) Reg. Number: 41,660 Deposit Account User ID:																																																																																																																																																																					

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

22241 U.S. Pat. & Tm. Office
 10/633045
 08/01/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Smith, D.A.

Attorney Docket No.: 101.0021CON

Serial No.:

Art Unit:

Filed Herewith: August 1, 2003

Examiner:

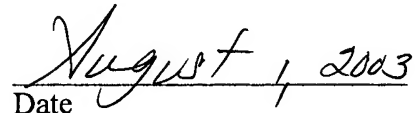
For: Method and Apparatus to Monitor, Control
and Log Subsea Oil and Gas Wells

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that these specifications are being deposited with the United States Postal
Service as Express Mail No. EV 337 085 532 US in an envelope addressed to: Commissioner for
Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Cherita Persons-Grimstead


Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Smith, D.A.

Attorney Docket No.: 101.0021CON

Serial No.:

Art Unit:

Filed Herewith: August 1, 2003

Examiner:

For: Method and Apparatus to Monitor, Control
and Log Subsea Oil and Gas Wells

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this Power of Attorney is being deposited with the United States Postal Service as Express Mail No. EV 337 085 532 US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Cherita Persons-Grimstead


Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
P.O. Box 1590
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Smith, D.A.

Attorney Docket No.: 101.0021CON

Serial No.:

Art Unit:

Filed Herewith: August 1, 2003

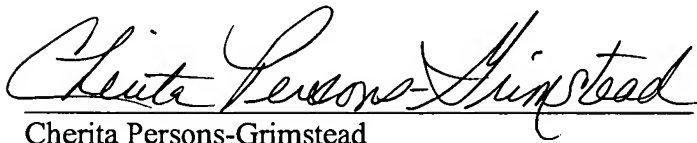
Examiner:

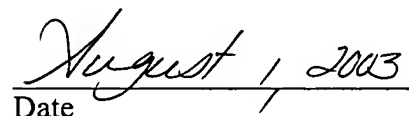
For: Method and Apparatus to Monitor, Control
and Log Subsea Oil and Gas Wells

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this Statement Under 37 CFR 3.73(b) is being deposited with the United States Postal Service as Express Mail No. EV 337 085 532 US in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.


Cherita Persons-Grimstead


Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104